PowerNext-P

Sometimes you need more power then can be delivered by an Arduino or DCCNext.
In that case a PowerNext-P or PowerNext-Z from Arcomora can help you.

The PowerNext-P is a board that can be used for controlling devices that require more current and a higher voltage.
It can switch a maxium load of 2 Amp.

The main characteristic of the PowerNext-P is that all loads must use a common plus.
It is designed for tracks where other electrical devices uses already a common plus.

The PowerNext-P can control eight devices that all require the same voltage.
Therefore a power unit must be connected.

You can connect the output from a DCCNext/DCC-shield to an input (green terminals) of the PowerNext-P.
A coupling print with the DCCNext is also available (requires Dupont pins on all ports of the DCCNext)
The input is fully separated from the output of the PowerNext-P by an optocoupler; even the ground is not connected.
This galvanic isolation between input and output(blue terminals) prevents unwanted disruptions.

You can also connect outputs from multiple DCCNext/DCC shield to this board.
Be sure to connect the GND from the DCCNext/DCC-shield to the GND input.

The PowerNext-P also support multicolor led strips as load.
All outputs contain a suppressor diode. That makes it very suitable for turnout coils.

Typical application for the PowerNext-P with Mardec accessories:
- Turnout coils; require two outputs and a “Double one shot“
- On/off control for DC motor, lights or (multi color) led strips and a “Single steady“.
- PWM control (slowly on-off-on) of DC motor, lights or (multicolor) led strips and a “Analog PWM“.